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Application No. 10/673,200
Amendment dated June 4, 2007
Reply to Office Action of January 4, 2007

Docket No.: 0941-1876PUS1

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An ~~effective number of gray levels image~~ detection apparatus is ~~to determine for determining an the~~ effective number of gray levels of a display while showing motion images, ~~which detection apparatus comprising:~~

an image generation means for generating a still image and ~~its a moving image, the moving image being a duplication of the still image but~~ with adjustable motion vectors, and then for providing an interested display to show the above-mentioned two images ~~still image and the moving image at the same time; time,~~ wherein the still image ~~can present presents~~ the gray level capability of the display while showing still images; and

an examination means for ~~determine using the moving image to determine the~~ effective number of gray levels of the display while showing ~~motion moving images from the above-mentioned motion image.~~

2. (Currently Amended) The apparatus ~~as of~~ claim 1, wherein ~~said the~~ gray levels of the still image are adjustable.

3. (Currently Amended) The apparatus ~~as of~~ claim 1, wherein ~~said the motion image is the duplication of the said still image but with adjustable~~ motion vectors include moving speed and direction.

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4. (Currently Amended) The apparatus ~~as of~~ claim 3, wherein said the moving speed and direction ~~of the moving image can be either automatically or manually adjusted or by manually operated.~~

5. (Currently Amended) The apparatus ~~as of~~ claim 1, wherein said the examined examination means ~~can be is~~ either ~~real a human eyes eye~~ or a human eyes eye simulator which simulates the detection behaviors of ~~real the human eyeseye.~~

6. (Currently Amended) A ~~effective number of gray levels detection apparatus is to determine for determining an the effective number of gray levels of a display while showing motion images, which detection apparatus comprising:~~

a visual simulator for simulating visual detection and recognition; and

an image generation means for generating a still image and a moving image, the moving image being a its duplication of the still image but with with adjustable motion vectors, and then for providing an interested display to show the above-mentioned ~~two images~~ still image and the moving image at the same ~~time, time,~~ wherein the still image ~~can present presents~~ the gray level capability of the display while showing still images; and

an examination means for ~~determine using the moving image to determine~~ the gray level capability of the display while showing ~~motion moving images from the above-mentioned motion image which is a duplication of the still image.~~

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7. (Currently Amended) The apparatus as of claim 6, wherein ~~said~~ the visual simulator ~~can be is~~ either a specified apparatus or a computer system with at least one human eyes-eye simulation programsprogram.

8. (Currently Amended) The apparatus as of claim 6, wherein ~~said~~ the gray levels of the still image are adjustable.

9. (Currently Amended) The apparatus as of claim 6, wherein ~~said~~ the motion image ~~is the duplication of the said still image but with adjustable~~ motion vectors include moving speed and direction.

10. (Currently Amended) The apparatus as of claim 9, wherein ~~said~~ the moving speed and direction of the moving image ~~can be either automatically or manually adjusted or by manually operated~~.

11. (Currently Amended) ~~An effective number of gray levels detection~~ A method is to determine for determining an the effective number of gray levels of a display while showing motion images, ~~which detection method comprising:~~

~~Generating~~ generating a still image and a moving image by an image generating means, the moving image being a its duplication but of the still image with adjustable moving speed and direction, ~~the duplication is referred as a motion image hereinafter, by an image generating means first, and then;~~

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showing the ~~images~~ still image and the moving image on the a screen;
adjusting the moving speed and direction of the moving image; and
determining the discrimination of adjacent gray levels of the moving image.

12. (Currently Amended) The method ~~as of~~ claim 11, wherein ~~said the~~ number of gray levels of ~~a the~~ display while showing moving images is not lost if the edge of adjacent gray levels of the moving image can be discriminated.

13. (Currently Amended) The method ~~as of~~ claim 11, wherein ~~said the~~ number of gray levels of a display while showing moving images is lost if the edge of adjacent gray levels of the moving image ~~can not~~ cannot be discriminated.

14. (Currently Amended) The method ~~as of~~ claim 11, wherein ~~said the~~ gray levels, moving speed, and ~~moving~~ direction are adjustable for detecting the gray level capability of the display while showing different moving pictures.

15. (Currently Amended) The method ~~as of~~ claim 11, wherein ~~said at least one of the~~ gray levels, moving speed, and direction of the still image and the moving image ~~can be are~~ either automatically or manually adjusted ~~or by manually operated~~.